

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-29 (*Canceled*)

- 1 Claim 30. (*Currently Amended*) [[An]] A two-level Internet search service system
2 comprising:
3 a search service provider (SSP) level search subsystem located on an SSP [[site]]
4 server, said SSP level search subsystem using web units as indexing objects and search
5 results at an SSP level search, each web unit being an information entity with web unit
6 index and categorization data for at least one web page of a web site, and each web unit
7 being a self-contained and distinguishable sub entity of the web site, each web page of
8 each web unit being related to and integrated in the associated web unit according to a
9 predetermined categorization criteria;
10 said SSP level search subsystem comprising:
11 self-submission means for submitting web unit index and categorization
12 data for a predetermined web unit;
13 data organizer means for indexing and sorting web unit index and
14 categorization data obtained by said self-submission means; and
15 search service means for obtaining web unit search results based on
16 queries, narrowing down the obtained web unit search results according to
17 selected narrow down variables, and providing personalized service; and

18 an in-site level search subsystem ~~located in the web site~~ for providing a web site
19 level search, said in-site level search subsystem comprising:
20 design aid means for conveying feedback of searchers and providing
21 designing and testing tools to web site owners to improve web site structure and
22 navigation;
23 a web page authoring tool to create web pages for the web site with
24 content specific metadata for the web site, the web page authoring tool
25 simplifying metadata implementation in web page writing/creation using the
26 in-site level search subsystem; and
27 an in-site search tool kit to conduct an in-site search in the web site, the
28 in-site search tool kit being located on a server different from the SSP server,
29 wherein said SSP level search subsystem is communicatively linked to said in-site
30 search tool kit within the in-site level search subsystem.

Claim 31 (*Canceled*)

1 Claim 32. (*Currently Amended*) The system according to claim [[31]] 30, wherein
2 said data organizer means comprises:
3 an index structure configured to store input information of web units;
4 a multi-directory structure configured to host web unit index and categorization
5 data categorized according to a subject classification; and
6 a web unit database configured to store indexed and sorted web unit index and
7 categorization data.

1 Claim 33. (*Currently Amended*) The system according to claim [[31]] 30, wherein
2 said self-submission means comprises downloadable submission software configured to
3 provide forms for web unit self-submission.

1 Claim 34. (*Previously Presented*) The system according to claim 33, wherein said
2 forms include an index form and a multi-directory entry form.

1 Claim 35. (*Previously Presented*) The system according to claim 33, wherein said
2 forms include a tutorial for submission and a suggestion form.

1 Claim 36. (*Previously Presented*) The system according to claim 33, wherein said
2 downloadable submission software includes update reminding software for reminding
3 users to provide new web unit information.

1 Claim 37. (*Previously Presented*) The system according to claim 33, wherein said
2 downloadable submission software is configured to detect any update or change in web
3 units.

1 Claim 38. (*Currently Amended*) The system according to claim ~~[[31]]~~ 30, wherein
2 said personal search service means comprises:
3 a personal directory for recording web units visited; and
4 a personal search agent for conducting searches.

1 Claim 39. (*Currently Amended*) The system according to claim ~~[[31]]~~ 30, wherein
2 said personal search service means is configured to analyze search patterns, provide
3 search improvement suggestions, and recommend new web units based on the analysis.

1 Claim 40. (*Currently Amended*) The system according to claim ~~[[31]]~~ 30, further
2 including a user feedback form for a user to rate web units under certain quality criteria,
3 to report any erroneous web unit submission, and to suggest improvement on search
4 quality.

1 Claim 41. (*Currently Amended*) The system according to claim ~~[[31]]~~ 30, wherein
2 said ~~personal~~ search service means is configured to post any unsolved search query for an
3 Internet community to provide a solution.

Claim 42 (*Canceled*)

1 Claim 43. (*Currently Amended*) The system according to claim ~~[[42]]~~ 30, wherein
2 said in-site ~~level search subsystem~~ search tool kit further comprises:
3 at least one web robot configured to understand metadata created by said
4 authoring tool, and to index data within a web site;
5 an in-site index database created by the said web robot; and
6 an in-site search engine program to conduct an in-site search.

1 Claim 44. (*Previously Presented*) The system according to claim 43, wherein said
2 in-site search engine program is communicatively linked to a personal search agent, and
3 can initiate an in-site search and provide search results from the in-site search.

1 Claim 45. (*Currently Amended*) [[An]] A two-level Internet search service
2 method comprising:

3 providing a search service provider (SSP) level search subsystem located [[in]] on
4 an SSP [[site]] server, said SSP level search subsystem using web units as indexing
5 objects and search results at an SSP level search, each web unit being an information
6 entity with web unit index and categorization data for at least one web page of a web site,
7 and each web unit being a self-contained and distinguishable sub entity of the web site
8 each web page of each web unit being related to and integrated in the associated web unit
9 according to a predetermined categorization criteria;

10 self-submitting web unit index and categorization data for a predetermined web
11 unit using the SSP level search subsystem;

12 indexing and sorting web unit index and categorization data obtained by the
13 previous submitting step within the SSP level search subsystem;

14 obtaining web unit search results based on queries using the SSP level search
15 subsystem;

16 narrowing down the obtained web unit search results according to selected narrow
17 down variables using the SSP level search subsystem;
18 providing personalized search service from the SSP level search subsystem;
19 providing an in-site level search subsystem located in the web site for providing a
20 web site level search;
21 providing a design aid for conveying feedback of searchers and providing
22 designing and testing tools to web site owners for improving web site structure and
23 navigation using the in-site level search subsystem;
24 providing a web page authoring tool to create web pages for the web site with
25 content specific metadata for the web site, the web page authoring tool simplifying
26 metadata implementation in web page writing/creation using the in-site level search
27 subsystem; and
28 providing an in-site search tool kit for conducting an in-site search from the
29 in-site level search subsystem, the in-site search tool kit being located on a server
30 different from the SSP server; and
31 communicatively linking the SSP level search subsystem to the in-site search tool
32 kit within the in-site level search subsystem.

Claim 46 (*Canceled*)

1 Claim 47. (*Currently Amended*) The method according to claim ~~[[46]]~~ 45,
2 wherein said indexing and sorting step further comprises:
3 providing a web unit database with an index database and a multi-directory
4 database;
5 storing input information of web units in an index structure;
6 hosting web unit index and categorization data categorized according to a subject
7 classification on a multi-directory structure; and
8 indexing and sorting web unit index and categorization data on a web unit
9 database.

1 Claim 48. (*Currently Amended*) The method according to claim ~~[[46]]~~ 45,
2 wherein said submitting web unit index and categorization data step further comprises
3 providing downloadable submission software configured to provide forms for web unit
4 self-submission, the forms including an index form, a multi-directory entry form, a
5 tutorial for submission, and a suggestion form.

1 Claim 49. (*Previously Presented*) The method according to claim 48, wherein said
2 providing downloadable submission software step further comprises configuring said
3 downloadable submission software to detect and verify submitted data.

1 Claim 50. (*Previously Presented*) The method according to claim 48, wherein said
2 providing downloadable submission software step further comprises providing update
3 reminding software for reminding users to provide new web unit information.

1 Claim 51. (*Previously Presented*) The method according to claim 48, wherein said
2 providing downloadable submission software step further comprises detecting any update
3 or change in web units with the downloadable submission software.

1 Claim 52. (*Previously Presented*) The method according to claim 45, wherein said
2 providing an SSP level search subsystem step further comprises:
3 recording web units visited in a personal directory; and
4 conducting searches with a personal search agent.

1 Claim 53. (*Previously Presented*) The method according to claim 45, wherein said
2 providing an SSP level search subsystem step further comprises:
3 analyzing search patterns;
4 providing search improvement suggestions; and
5 recommending new web units based on the analysis.

1 Claim 54. (*Previously Presented*) The method according to claim 45, wherein said
2 providing an SSP level search subsystem step further comprises:
3 providing a user feedback form for user to rate web units under certain quality
4 criteria;
5 reporting any erroneous web unit submission; and
6 suggesting improvement on search quality.

1 Claim 55. (*Previously Presented*) The method according to claim 45, wherein said
2 providing an SSP level search subsystem step further comprises posting any unsolved
3 search query for an Internet community to provide a solution.

Claim 56 (*Canceled*)

1 Claim 57. (*Currently Amended*) The method according to claim ~~[[56]]~~ 45,
2 wherein said providing an in-site level search subsystem comprises search tool kit step
3 further comprises:
4 understanding metadata created by the web page authoring tool, and indexing data
5 within a web site with at least one web robot,
6 creating an in-site index database using the web robot, and
7 conducting an in-site search with an in-site search engine program.

1 Claim 58. (*Currently Amended*) The method according to claim 57, wherein said
2 providing an in-site ~~level search subsystem comprises~~ search tool kit step further
3 comprises:
4 communicatively linking the in-site search engine program to a personal search
5 agent;
6 initiating an in-site search; and
7 providing search results from the in-site search.